

ABSTRACT OF THE DISCLOSURE

A receiver for transmission and parallel interference ~~suppression is envisioned. The~~ receiver has multiple access interference suppression stages having K channels, each comprising a correlation-~~means~~ device corresponding to a particular pseudorandom sequence and interference generation and suppression ~~means~~ device. Each stage delivers to the following stage signals at least partly freed from multiple access interferences. A decision stage receives the signals from the channels of the preceding suppression stage. Each decision stage has a correlation-~~means~~ device corresponding to one of the pseudorandom sequences and decision ~~means~~ device to deliver data. A-~~means~~ Devices for producing synchronization signals can control the interference suppression and the decision ~~means~~ device. The ~~means~~ devices producing the synchronization signals have ~~means~~ components placed in the channels of the final stage. Further, the synchronization signals produced by ~~the means controlling these devices~~ control the decision ~~means~~ device of the channels of the final stage and the interference estimation ~~means~~ device of the at least one interference suppression stages following appropriate time shifts.